

Adhesive Anchoring Selection Guide

◀ COLD WEATHER USE
and lower 0°F 20°F 50°F

▶ HOT WEATHER USE
80°F 90°F 100°F and higher

A7 – BEST FORMULA
C6 and G5

G5 – BEST FORMULA
C6 and A7



Doweling into Concrete with Rebar






Fastening to Concrete with Threaded Rod

Solid Concrete Applications

Best Formula (Yellow) Suitable Formula (Green) Not Suitable (Blue)

A7 EPCON	C6 EPCON	G5 EPCON
Fast Dispensing, Fast Curing	Fast Curing for All Conditions	Extended Working Time
10:1 ACRYLIC	1:1 EPOXY	1:1 EPOXY
fast 35 minute cure time at 60°F 7 minute working time at 60°F	fast 1 hour cure time at 70°F 7 minute working time at 70°F	24 hour cure time per (AC308) PLUS extended 15 minute working time at 70°F
NSF STANDARD 61 Certified for drinking water applications	NSF STANDARD 61 Certified for drinking water applications	ODORLESS for indoor applications
COLD WEATHER no heating of cartridges required	Suitable for extreme temperature ranges	HOT WEATHER more time to install anchors

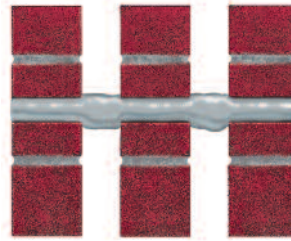
18 month shelf life	2 year shelf life	18 month shelf life
Damp holes	Damp holes	Damp holes
Underwater installations	Underwater installations	Underwater installations
Screens in hollow block and brick	Screens in hollow block and brick	Screens in hollow block and brick
Oversized holes will reduce loads	Oversized holes no reduction	Oversized holes no reduction
Cored-drilled holes will reduce load	Cored-drilled holes with no reduction	Cored-drilled holes with no reduction

PRODUCT SYSTEMS	KEY FEATURES	PROPERTIES	ULTIMATE TENSILE PERFORMANCE ^{1,2}																														
<p>A7 Fast Dispensing, Fast Curing Acrylic</p> <p>Install more anchors in less time</p> <p>MADE IN USA</p> <p>5 fluid oz. (150 ml), 8 fluid oz. (235 ml) 10 fluid oz. (275 ml) and 28 fluid oz. (825 ml) cartridges (see page 20)</p> 	<ul style="list-style-type: none"> Solid or hollow base materials Dispenses easier and faster Damp holes or underwater Fastest cure (35 min. at 60°F) Dispenses and cures faster in cold weather Can be used in smaller diameter holes No-drip formula reduces clean-up time Hand dispensable 28-oz. cartridge 	<table border="1"> <thead> <tr> <th>BASE MATERIAL¹ (F°/C°)</th> <th>WORKING TIME</th> <th>FULL CURE TIME</th> </tr> </thead> <tbody> <tr><td>100° / 38°</td><td>5 minutes</td><td>25 minutes</td></tr> <tr><td>80° / 27°</td><td>5.5 minutes</td><td>30 minutes</td></tr> <tr><td>60° / 16°</td><td>7 minutes</td><td>35 minutes</td></tr> <tr><td>40° / 4°</td><td>15 minutes</td><td>75 minutes</td></tr> <tr><td>20° / -7°</td><td>35 minutes</td><td>6 hours</td></tr> <tr><td>0° / -18°</td><td>4 hours</td><td>24 hours</td></tr> </tbody> </table> <p>NSF[®] Certified to ANS/NSF 61</p>	BASE MATERIAL ¹ (F°/C°)	WORKING TIME	FULL CURE TIME	100° / 38°	5 minutes	25 minutes	80° / 27°	5.5 minutes	30 minutes	60° / 16°	7 minutes	35 minutes	40° / 4°	15 minutes	75 minutes	20° / -7°	35 minutes	6 hours	0° / -18°	4 hours	24 hours	<p>10,980 (3/8" x 3-3/8")</p> <p>26,500 (5/8" x 5-5/8")</p> <p>48,210 (1" x 9")</p>									
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<p>C6 Fast Curing Epoxy for All Conditions</p> <p>Consistently handles all applications</p> <p>MADE IN USA</p> <p>18 fluid oz. (530 ml) cartridges (see page 31)</p> 	<ul style="list-style-type: none"> NEW! Base Material Temperature 15°F (cartridge temperature must be ≥ 70°F) Solid or hollow base materials Hammer drilled or diamond cored holes Oversized holes Cold or warm weather Damp holes or underwater Horizontal or overhead installations Fast curing epoxy (1 hour at 70°F) 	<table border="1"> <thead> <tr> <th>BASE MATERIAL¹ (F°/C°)</th> <th>WORKING TIME</th> <th>FULL CURE TIME</th> </tr> </thead> <tbody> <tr><td>120° / 49°</td><td>4 minutes</td><td>1 hour</td></tr> <tr><td>110° / 43°</td><td>4 minutes</td><td>1 hour</td></tr> <tr><td>90° / 32°</td><td>5 minutes</td><td>1 hour</td></tr> <tr><td>80° / 26°</td><td>6 minutes</td><td>1 hour</td></tr> <tr><td>70° / 21°</td><td>7 minutes</td><td>1 hour</td></tr> <tr><td>60° / 16°</td><td>7 minutes</td><td>2 hours</td></tr> <tr><td>50° / 10°</td><td>7 minutes</td><td>2 hours</td></tr> <tr><td>40° / 4°</td><td>7 minutes</td><td>24 hours</td></tr> <tr><td>15° / -9°</td><td>6 minutes</td><td>24 hours</td></tr> </tbody> </table> <p>¹ Cartridge must be ≥ 70°F. ² Working time is max time from the end of mixing to when the insertion of the anchor into the adhesive shall be completed. Gel Time per ASTM D2471 = 10 minutes at 72°F</p> <p>NSF[®] Certified to ANS/NSF 61</p>	BASE MATERIAL ¹ (F°/C°)	WORKING TIME	FULL CURE TIME	120° / 49°	4 minutes	1 hour	110° / 43°	4 minutes	1 hour	90° / 32°	5 minutes	1 hour	80° / 26°	6 minutes	1 hour	70° / 21°	7 minutes	1 hour	60° / 16°	7 minutes	2 hours	50° / 10°	7 minutes	2 hours	40° / 4°	7 minutes	24 hours	15° / -9°	6 minutes	24 hours	<p>8,440 (3/8" x 3-3/8")</p> <p>24,520 (5/8" x 5-5/8")</p> <p>47,880 (1" x 9")</p>
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<p>G5 High Strength Epoxy tested in accordance to ICC-ES AC308</p> <p>15 min. working time; 24 hour cure time (Per AC308) (70°F)</p> <p>MADE IN USA</p> <p>22 fluid oz. (650 ml) cartridge (see page 37)</p> 	<ul style="list-style-type: none"> Solid base materials Fire rated: tested up to 4hrs FRP Works in dry, damp, saturated, and underwater applications Gives more time to install anchors Easier to install anchors in hot weather Odorless Oversized and cored holes Improved wet/water filled Resist wind loads 	<table border="1"> <thead> <tr> <th>BASE MATERIAL¹ (F°/C°)</th> <th>WORKING TIME</th> <th>FULL CURE TIME</th> </tr> </thead> <tbody> <tr><td>110° / 43°</td><td>9 minutes</td><td>24 hours</td></tr> <tr><td>90° / 32°</td><td>9 minutes</td><td>24 hours</td></tr> <tr><td>70° / 20°</td><td>15 minutes</td><td>24 hours</td></tr> <tr><td>50° / 10°</td><td>15 minutes</td><td>24 hours</td></tr> </tbody> </table> <p>RECOGNIZED WORLDWIDE Fire Tested BS476 4 Hrs FRP</p>	BASE MATERIAL ¹ (F°/C°)	WORKING TIME	FULL CURE TIME	110° / 43°	9 minutes	24 hours	90° / 32°	9 minutes	24 hours	70° / 20°	15 minutes	24 hours	50° / 10°	15 minutes	24 hours	<p>8,369 (3/8" x 3-3/8")</p> <p>20,880 (5/8" x 5-5/8")</p> <p>53,531 (1" x 9")</p> <p>International Standard Fire Resistance Performance</p>															
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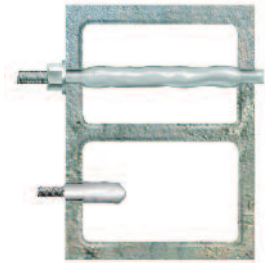
¹Diameter x Embedment in 4000 psi concrete. ²All loads given in pounds.

Hollow Base Material Applications





Use the following accessories with the A7 and C6 adhesive anchoring systems for all of your hollow base material applications.



Brick Pinning



Fastening to hollow concrete block

SYSTEM ACCESSORIES	KEY FEATURES	ULTIMATE TENSILE ^{1,2} PERFORMANCE (Lbs)															
<h3>Nylon Screens</h3>  <p>Makes it possible to use adhesive for fastening to hollow block or brick walls (see page 46)</p>	<ul style="list-style-type: none"> 3/8" to 3/4" diameter sizes 30%-50% lower cost than stainless screens Special design makes screens easier to insert through block or brick Does not get bent or crushed Corrosion resistant 	<table border="1"> <tr> <td colspan="2">A7</td> <td colspan="2">C6</td> </tr> <tr> <td>3/8" x 8"</td> <td>2,360</td> <td>3/4" x 8"</td> <td>2,647</td> <td>3/8" x 8"</td> <td>2,800</td> <td>3/4" x 8"</td> <td>3,487</td> </tr> </table>				A7		C6		3/8" x 8"	2,360	3/4" x 8"	2,647	3/8" x 8"	2,800	3/4" x 8"	3,487
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<h3>Stainless Steel Screens</h3>  <p>Makes it possible to use adhesive for fastening to hollow block or brick walls (see page 46)</p>	<ul style="list-style-type: none"> 1/4" to 3/4" diameter sizes Corrosion resistant Available in multiple lengths to accommodate various material thicknesses 	<table border="1"> <tr> <td colspan="2">A7</td> <td colspan="2">C6</td> </tr> <tr> <td>3/8" x 8"</td> <td>2,360</td> <td>3/4" x 8"</td> <td>2,647</td> <td>3/8" x 8"</td> <td>2,800</td> <td>3/4" x 8"</td> <td>3,487</td> </tr> </table>				A7		C6		3/8" x 8"	2,360	3/4" x 8"	2,647	3/8" x 8"	2,800	3/4" x 8"	3,487
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<h3>Stubby Screens</h3>  <p>Makes it possible to use adhesive for fastening to the face of hollow block or tile (see page 43)</p>	<ul style="list-style-type: none"> 1/4", 3/8", 1/2", 5/8" diameter sizes Fasten to front face of block Anchor remains perpendicular in wall 	<table border="1"> <tr> <td colspan="2">A7</td> <td colspan="2">C6</td> </tr> <tr> <td>1/2"</td> <td>2,458</td> <td>5/8"</td> <td>2,543</td> <td>1/2"</td> <td>1,873</td> <td>5/8"</td> <td>1,970</td> </tr> </table>				A7		C6		1/2"	2,458	5/8"	2,543	1/2"	1,873	5/8"	1,970
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<h3>Umbrella and Umbrella Inserts</h3>  <p>Makes it possible to use adhesive for fastening to the face of hollow block or tile (see page 43)</p>	<ul style="list-style-type: none"> 1/4", 3/8", or 1/2" rods 3/8" internal inserts (HBU-FS) Fasten to front face of blocks Creates large bearing surface inside block to achieve high loads 	<table border="1"> <tr> <td colspan="2">A7</td> <td colspan="2">C6</td> </tr> <tr> <td>3/8"</td> <td>3,558</td> <td>1/2"</td> <td>3,558</td> <td>3/8"</td> <td>1,875</td> <td>1/2"</td> <td>1,875</td> </tr> </table>				A7		C6		3/8"	3,558	1/2"	3,558	3/8"	1,875	1/2"	1,875
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¹ Testing performed in hollow concrete block.

² Diameter x Embedment.